STATE BUILDING CODE COUNCIL

Log No. <u>14-08</u>

1. Sta	ate Building C	ode to be Amended:								
	Internation	onal Building Code		State Energy Code						
	☐ ICC ANS	SI A117.1 Accessibility Code	\boxtimes	International Mechanical Code						
	Internation	onal Existing Building Code		International Fuel Gas Code						
	Internation	onal Residential Code		NFPA 54 National Fuel Gas Code						
	Internation	onal Fire Code		NFPA 58 Liquefied Petroleum Gas Code						
	Uniform	Plumbing Code	umbing Code							
	Section(s): 2012 IMC Section 403.8.6.1 Item 1.4 Title: Outdoor Air									
2. Pr	oponent Name Proponent: Title: Date:	e (Specific local government, or Eric Vander Mey, PE, Rushi Principal 2/28/2014	0	•						
3. De	esignated Cont	act Person:								
	Name:	Eric Vander Mey								
	Title:	Principal								
	Address:	s: 1725 Westlake Ave N, Suite 300, Seattle, WA 98109								
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	E-Mail addr	E-Mail address: ericv@rushingco.com								

4. Proposed Code Amendment. Reproduce the section to be amended by underlining all added language, striking through all deleted language. Insert <u>new</u> sections in the appropriate place in the code in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code additional pages may be attached. (Examples on the SBCC <u>website</u>)

Code(s) 2012 IMC Washington State Amendment Section(s) 403.8.6.1 Item 1.4

Amend section to read as follows:

- 403.8.6 Whole house ventilation with exhaust fan systems. This section establishes minimum requirements for mechanical whole house ventilation systems using exhaust fans.
- 403.8.6.1 Outdoor air. Exhaust fan only ventilation systems shall provide outdoor air to each occupiable space through one of the following methods:
- 1. Outdoor air may be drawn through air inlets installed in exterior walls or windows. The air inlets shall comply with all of the following:
 - 1.1 Inlets shall have controllable, secure openings and shall be designed to not compromise the thermal properties of the building envelope.
 - 1.2. Inlets shall be accessible to occupants, including compliance with Section 1109.13 of the International Building Code for designated accessible units, Type A units and Type B units.
 - 1.3. Inlets shall be screened or otherwise protected from entry by insects, leaves, or other material.
 - 1.4. Inlets shall provide not less than 4 square inches of net free area of opening for each 10 cfm of outdoor air required by Section 403.8.1 and by Sections 403.8.5.1 for continuous operation or by the exception to 403.8.5.1 for intermittent operation.in Table 403.3 or Table 403.8.1.
 - 1.5. Any inlet or combination of inlets which provide 10 cfm at 10 Pascals as determined by the Home Ventilation Institute Air Flow Test Standard (HVI 901 (November 1996)) are deemed equivalent to 4 square inches of net free area.
 - 1.6. Each occupiable space shall have a minimum of one air inlet that has a minimum of 4 square inches of net free area.

5. Briefly explain your proposed amendment, including the purpose, benefits and problems addressed. Specifically note any impacts or benefits to business, and specify construction types, industries and services that would be affected. Finally, please note any potential impact on enforcement such as special reporting requirements or additional inspections required.

Amendment is needed to clarify that the quantity of outdoor air inlets is determined based on the continuous operation outdoor airflow or the intermittent operation airflow. As currently written the code language is written it implies that the outdoor airflow rate from the Tables is utilized with ventilation effectiveness corrections or intermittent operation corrections.

This was be a point of confusion with mechanical designers. Code officials have been inconsistent with enforcing that outdoor inlet sizing should be consistent with the outdoor air rate required for proper wholehouse exhaust system operation.

6. Specify what criteria this proposal meets. You may select more than one. The amendment is needed to address a critical life/safety need. The amendment is needed to address a specific state policy or statute. The amendment is needed for consistency with state or federal regulations. The amendment is needed to address a unique character of the state. The amendment corrects errors and omissions.						
7.	Is there an economic impact: ☐ Yes ☐ No Explain: Negative economic impact if not adopted. Without a change the code language is not enforceable and this will lead to inconsistent code enforcement across Washington State.					

If there is an economic impact, use the Table below to estimate the costs and savings of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance. If preferred, you may submit an alternate cost benefit analysis.

	Construction ¹		Enforcement ²		Operations & Maintenance ³	
Building Type	Costs	Benefits ⁴	Costs	Benefits ⁴	Costs	Benefits ⁴
Residential						
Single family	N/A	N/A	N/A	N/A	N/A	N/A
Multi-family						
Commercial/Retail	N/A	N/A	N/A	N/A	N/A	N/A
Industrial	N/A	N/A	N/A	N/A	N/A	N/A
Institutional	N/A	N/A	N/A	N/A	N/A	N/A

Please send your completed proposal to: sbcc@ga.wa.gov

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.

¹ \$ / square foot of floor area or other cost. Attach data. **Construction** costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

² Cost per project plan. Attach data. **Enforcement** costs include governmental review of plans, field inspection, and other action required for enforcement.

³ Cost to building owner/tenants over the life of the project.

⁴ Measurable benefit.